

# AVIONICS, CERTIFICATE OF ACHIEVEMENT

**Banner Code:** 1\_CN\_AMAV

**Control Number:** 40077

**Not Financial Aid Eligible**

The Avionics program is designed to prepare students for entry-level positions as installation, maintenance, and repair technicians for avionic equipment in private, corporate, and commercial aircraft.

The aircraft industry is quickly evolving its level of sophisticated navigational and communications systems to include microprocessor-based systems in all areas of the airframe. This requires a new competent work force capable in the state-of-the-art technology of the future.

This two-semester certificate program combines theory and laboratory practices with hands-on application in actual aircraft. Upon completion, the student will be ready for employment in this fast growing and exciting field.

## Program Outcomes

1. Have the necessary skills and training for Avionics proficiency which may be required for employment.
2. Be able to improve or develop additional proficiencies required for professional growth or advancement in their current employment. All qualification training and tests are prescribed and follow the guide of the Federal Aviation.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/certificates/#achievementtext>).

| Course                  | Title  | Units     |
|-------------------------|--|-----------|
| <b>Required Courses</b> |  |           |
| AMT A151                | General Electricity - FAA                              | 3         |
| AMT A180                | Airframe and Powerplant Instrumentation<br>FAA         | 2.5       |
| AMT A181                | Airframe Communication and Navigation<br>Systems - FAA | 2         |
| AMT A182                | Avionics Installation Practices                        | 4         |
| AMT A184                | Avionics Installations and Troubleshooting             | 4         |
| AMT A188                | G.R.O.L. and Avionics Rules and<br>Regulations         | 1.5       |
| <b>Total Units</b>      |  | <b>17</b> |

## Program Sequence

These sequences at Orange Coast College are curriculum maps for students to finish all requirements for the certificate. There may be advisories, prerequisites, or time requirements that students need to consider before following these maps. **Students are advised to meet with an Orange Coast College Counselor for alternate sequencing.**

**Some courses in this program may be offered once per academic year.**

| Course             | Title  | Units      |
|--------------------|--|------------|
| <b>Year 1</b>      |  |            |
| <b>Semester 1</b>  |  |            |
| AMT A151           | General Electricity - FAA                              | 3          |
| AMT A182           | Avionics Installation Practices                        | 4          |
| AMT A188           | G.R.O.L. and Avionics Rules and<br>Regulations         | 1.5        |
| <b>Units</b>       |  | <b>8.5</b> |
| <b>Semester 2</b>  |  |            |
| AMT A181           | Airframe Communication and Navigation<br>Systems - FAA | 2          |
| AMT A180           | Airframe and Powerplant Instrumentation<br>FAA         | 2.5        |
| AMT A184           | Avionics Installations and Troubleshooting             | 4          |
| <b>Units</b>       |  | <b>8.5</b> |
| <b>Total Units</b> |  | <b>17</b>  |